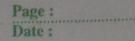
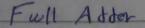
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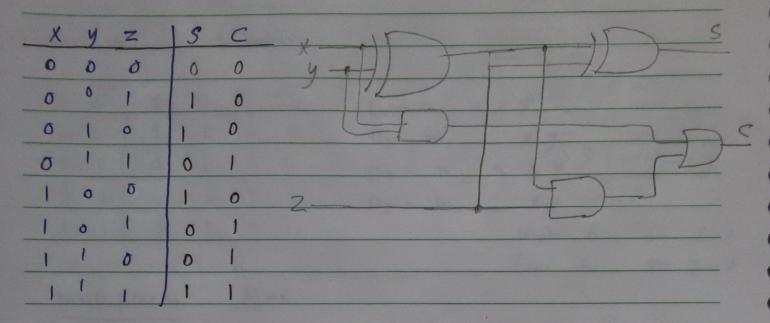
	Digital Breton Systems
Pont 2 Logi	c Design points VHDL
	د محود العنويي
AND	
	6 R
B	1 if all laport = 1 & J
F = A.B.C.	· · · · · · · · · · · · · · · · · · ·
ABCIF	F = A + B + C
0 0 0 0	1 if any input = 1
0010	
0100	Inverter (NOT)
0116	
1000	A Ā
1010	8
1100	1 8
1111	NAND TO
	NOR DO DO-
XOR	
-10	XNOR
1 if no	. Jinput odd 1 if no. 1 input even
XYIF	X y F
0 0 0	0 0 1
0 1 1	0 1 0
101) 0 0
110	1 1 1
F=X DY	F= X Oy

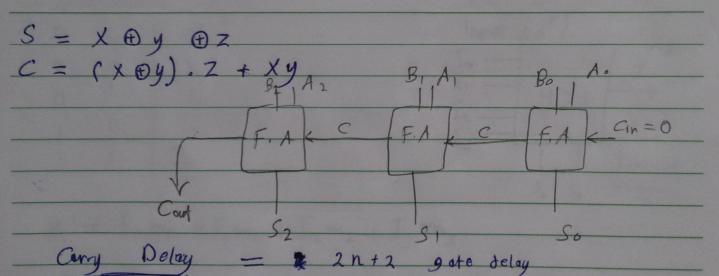
KHUFU

F' = AC + A' C' F = (A'+c')(A+c) product of sum product of max term (wings) Sum of product Sum of min term (wins) F= C+ AB+ AD A ddor Half Adder S = X Dy C = Xy









Cerry look Ahood
Cerry Doloy - 4 gate delay

BA

Decoder

n' Impots	2" output
- 114 613	~

X	y	100	0,	Dz	D3
0	0	11	0	O	0
0	1	0	1	0	0
1	0	0	0	1	0
1	1	0	0	0	

Do = mo - x'y' = 7
D, = m, - x'y x - 2x4 - 0,
$D_1 = m_1 = x'y \times \frac{1}{2}x4 = 0$ $D_2 = m_2 \le x y' y Dodd Dodd D_3$
D3 = M3 = Xy
11.1. 1

Low E on E=0

muti plexen Mux

51	So	12	
0	0	Io	
0)	I	
)	0	I2	
)	1	I3	

